

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: October 8, 2004, 04:42:22 ; Search time 8348 Seconds
(without alignments)
11183.624 Million cell updates/sec

Title: US-10-086-156-23
Perfect score: 2154
Sequence: 1 atgacgagtggttttgcg.....taataaaaaaaaaa 2154

Scoring table: IDENTITY NUC
Gapop 10_0 , Gapext 1.0

Searched: 3470272 seqs, 21671516995 residues
Total number of hits satisfying chosen parameters: 6940544

Minimum DB seq length: 0
Maximum DB seq length: 2000000000
Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : GenEmbl :

1: gb_ba.*
2: gb_htg.*
3: gb_in.*
4: gb_om.*
5: gb_ov.*
6: gb_pat.*
7: gb_ph.*
8: gb_pl.*
9: gb_pr.*
10: gb_ro.*
11: gb_sts.*
12: gb_sy.*
13: gb_un.*
14: gb_vi.*
15: em_ba.*
16: em_fun.*
17: em_hum.*
18: em_in.*
19: em_mu.*
20: em_om.*
21: em_or.*
22: em_ov.*
23: em_pat.*
24: em_ph.*
25: em_pl.*
26: em_ro.*
27: em_sts.*
28: em_un.*
29: em_vi.*
30: em_htg_hum.*
31: em_htg_inv.*
32: em_htg_other.*
33: em_htg_mus.*
34: em_htg_pln.*
35: em_htg_rod.*
36: em_htg_mam.*
37: em_htg_vrt.*
38: em_sy.*
39: em_htgo_hum.*
40: em_htgo_mus.*
41: em_htgo_other.*

Pred. No. is the number of results predicted by chance to have a

score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Match	Length	DB	ID	Description
C 1	1200.4	55.7	135044	9	AC006001	AC006001 Homo sapi
C 2	1160.6	53.9	194464	2	AC146119	AC146119 Pan trogl
C 3	1031.4	47.9	135044	9	AC006001	AC006001 Homo sapi
C 4	588.6	27.3	4807	6	BD183414	BD183414 Novel gen
C 5	587	27.3	1211	9	BC042482	BC042482 Homo sapi
C 6	587	27.3	2576	6	AX714361	AX714361 Sequence
C 7	587	27.3	2576	9	AK056631	AK056631 Homo sapi
C 8	565.2	26.2	1124	6	BD275557	BD275557 MOLECULES
C 9	433.6	20.1	3864	9	AB056802	AB056802 Macaca fa
C 10	387.8	18.0	680	6	AX575790	AX575790 Sequence
C 11	374	17.4	374	11	GS1111	GS1111 SHGC-80071
C 12	315.2	14.6	363	6	AX575786	AX575786 Sequence
C 13	293.6	13.6	188791	10	AC117185	AC117185 Mus muscu
C 14	293.6	13.6	257003	10	AC122830	AC122830 Mus muscu
C 15	268.8	12.5	1103	10	BC051544	BC051544 Mus muscu
C 16	257.4	11.9	4143	9	AK127790	AK127790 Homo sapi
C 17	217.6	10.1	667	11	BV029947	BV029947 S212P6093
C 18	214.8	10.0	246	6	BD027041	BD027041 Sequence
C 19	214.8	10.0	246	6	BD027041	BD027041 Sequence
C 20	177.4	8.2	194464	2	AC146119	AC146119 Pan trogl
C 21	172.4	8.0	321	6	AX575788	AX575788 Sequence
C 22	167.2	7.8	203685	10	AC122339	AC122339 Mus muscu
C 23	159.2	7.4	213729	2	AC116246	AC116246 Rattus no
C 24	159.2	7.4	216180	2	AC119707	AC119707 Rattus no
C 25	121.2	5.6	178538	2	AC134778	AC134778 Homo sapi
C 26	121.2	5.6	203192	9	AC103810	AC103810 Homo sapi
C 27	118.4	5.5	79776	2	AC139431	AC139431 Homo sapi
C 28	117.8	5.5	82659	2	AC135725	AC135725 Homo sapi
C 29	117.8	5.5	204940	2	AC069007	AC069007 Homo sapi
C 30	117.8	5.5	207611	9	AC091132	AC091132 Homo sapi
C 31	116.4	5.4	18534	9	HSSERCAL	Y15724 Homo sapien
C 32	116.4	5.4	111370	9	AC067815	AC067815 Homo sapi
C 33	116.4	5.4	134362	2	AC084853	AC084853 Homo sapi
C 34	116.4	5.4	158414	9	AC005940	AC005940 Homo sapi
C 35	116.2	5.4	179564	9	AC139677	AC139677 Homo sapi
C 36	116.2	5.4	198470	9	AC046170	AC046170 Homo sapi
C 37	116.2	5.4	200420	9	AC138645	AC138645 Homo sapi
C 38	115.8	5.4	73947	9	AC068152	AC068152 Homo sapi
C 39	115.8	5.4	88004	9	AC002316	AC002316 Homo sapi
C 40	115.8	5.4	140386	9	AC015921	AC015921 Homo sapi
C 41	115.8	5.4	164874	2	AC138223	AC138223 Homo sapi
C 42	115.2	5.3	183093	9	AC138688	AC138688 Homo sapi
C 43	115	5.3	28746	2	AC008647	AC008647 Homo sapi
C 44	115	5.3	101744	9	AL512783	AL512783 Human DNA
C 45	114.6	5.3	122168	9	AC127383	AC127383 Homo sapi

ALIGNMENTS

RESULT 1
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LOCUS AC006001 135044 bp DNA linear PRI 02-OCT-2003
DEFINITION Homo sapiens PAC clone RP4-756H11 from 7, complete sequence.
ACCESSION AC006001
VERSION AC006001.2 GI:5708496
KEYWORDS HTG.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 135044)
AUTHORS Sulston, J.E. and Wilson, R.
TITLE Toward a complete human genome sequence
JOURNAL Genome Res. 8 (11), 1097-1108 (1998)

99063792

MEDLINE

9847074

PUBMED

2 (bases 1 to 135044)

REFERENCE

Lamar,B., Le,T. and Wohldmann,P.

AUTHORS

The sequence of Homo sapiens PAC clone RP4-756H11

TITLE

Unpublished (2001)

REFERENCE

3 (bases 1 to 135044)

AUTHORS

Waterston,R.H.

TITLE

Direct Submission

JOURNAL

Submitted (22-NOV-1998) Genome Sequencing Center, Washington

REFERENCE

MO 63108, USA

AUTHORS

4 (bases 1 to 135044)

TITLE

Waterston,R.H.

JOURNAL

Submitted (07-AUG-1999) Genome Sequencing Center, Washington

REFERENCE

MO 63108, USA

AUTHORS

5 (bases 1 to 135044)

TITLE

Waterston,R.

JOURNAL

Submitted (30-SEP-2000) Department of Genetics, Washington

REFERENCE

University, 4444 Forest Park Avenue, St. Louis, Missouri 63108, USA

AUTHORS

6 (bases 1 to 135044)

TITLE

Waterston,R.

JOURNAL

Submitted (26-APR-2003) Department of Genetics, Washington

REFERENCE

University, 4444 Forest Park Avenue, St. Louis, Missouri 63108, USA

AUTHORS

7 (bases 1 to 135044)

TITLE

Wilson,R.

JOURNAL

Submitted (02-OCT-2003) Department of Genetics, Washington

COMMENT

University, 4444 Forest Park Avenue, St. Louis, Missouri 63108, USA

On Aug 8, 1999 this sequence version replaced gi:3907522.

----- Genome Center

Center: Washington University Genome Sequencing Center

Center code: WUGSC

Web site: http://genome.wustl.edu

Contact: sapiens@watson.wustl.edu

----- Summary Statistics

----- Center project name: H_DJ0756H11

NOTICE: This sequence may not represent the entire insert of this

clone. It may be shorter because we only sequence overlapping

clone sections once, or longer because we provide a small overlap

between neighboring data submissions.

This sequence was finished as follows unless otherwise noted:

all regions were double stranded, sequenced with an alternate

chemistry, or covered by high quality data (i.e., phred quality >=

30); an attempt was made to resolve all sequencing problems, such

as compressions and repeats; all regions were covered by sequence

from more than one subclone; and the assembly was confirmed by

restriction digest.

MAPPING INFORMATION:

The sequence of this clone was established as part of a mapping and

sequencing collaboration between the NHGRI Chromosome 7 Mapping

Project (Eric D. Green, Director), John D. McPherson in the

Department of Genetics (Washington University), and the Washington

University Genome Sequencing Center. For additional information

about the map position of this sequence, see

http://www.nhgri.nih.gov/DIR/OTB/CHR7, send

mailto:egreen@nhgri.nih.gov, or see http://genome.wustl.edu

SOURCE INFORMATION:

This clone was derived from human PAC library RPCI-4, prepared by

Pieter de Jong and coworkers at http://www.chori.org using the

method described by Ioannou et al., Nature Genetics 6:84-9 (1994).

The library is from one male donor.

The clone may be obtained either from Genome Systems, Inc.

(http://www.genomesystems.com) or Research Genetics, Inc.

(http://www.resgen.com); or from Pieter de Jong.

VECTOR: pCYPAC2

NEIGHBORING SEQUENCE INFORMATION:

Actual start of this clone is at base position 1 of RP4-756H11

actual end is at base position 135044 of RP4-756H11.

Location/Qualifiers

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/mol_type="genomic DNA"

/db_xref="taxon:9606"

/chromosome="7"

/map="7"

/clone="RP4-756H11"

/clone_lib="RPCI-4"

59..349

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369..488

/rpt_family="ERV1"

494..800

/rpt_family="Alu"

835..1030

/rpt_family="L2"

1357..1436

/rpt_family="Alu"

1523..1828

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2038..2314

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2328..2631

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2686..2781

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2785..2927

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2937..2973

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3517..3546

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3547..3793

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3794..3823

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3824..4073

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4657..4887

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4895..5060

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6214..6370

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6492..6700

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7521..7616

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7652..7971

/rpt_family="Alu"

8017..8294

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repeat_region

repeat_region

repeat_region

repeat_region

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repeat_region

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repeat_region 8769..8930 /rpt_family="Alu"
repeat_region 8972..9065 /rpt_family="Alu"
repeat_region 9079..9126 /rpt_family="Alu"
repeat_region 9187..9229 /rpt_family="(TA)n"
repeat_region 9230..9250 /rpt_family="(TG)n"
repeat_region 9231..9549 /rpt_family="AT-rich"
repeat_region 9550..9572 /rpt_family="Alu"
repeat_region 9648..9678 /rpt_family="AT-rich"
repeat_region 9750..9791 /rpt_family="(A)n"
repeat_region 9808..10423 /rpt_family="Alu"
repeat_region 11152..11226 /rpt_family="L2"
repeat_region 11716..12011 /rpt_family="MIR"
repeat_region 12015..12333 /rpt_family="Alu"
repeat_region 12465..12583 /rpt_family="MIR"
repeat_region 13722..13853 /rpt_family="Alu"
repeat_region 14062..14287 /rpt_family="MER1_type"
repeat_region 14461..14592 /rpt_family="L2"
repeat_region 14669..14965 /rpt_family="MIR"
repeat_region 15509..15814 /rpt_family="Alu"
repeat_region 15827..16007 /rpt_family="Alu"

Query Match 55.7%; Score 1200.4; DB 9; Length 135044;
Best Local Similarity 99.8%; Pred. No. 1.8e-272;
Matches 1212; Conservative 0; Mismatches 1; Indels 1; Gaps 1;

Qy 926 AAAGCGGCTGTATTGGAACTCCATTGGTCCAGAGACAGACAGAAATGAGAGAAAT 985
Db 32238 AAAGCGGCTGTATTGGAACTCCATTGGTCCAGAGACAGACAGAAATGAGAGAAAT 32179

Qy 986 CCCCTGTCCAGTTGCTGCAGAGATATTCACACTTCATGGGCTAGAGGATTCATTGA 1045
Db 32178 CCCCTGTCCAGTTGCTGCAGAGATATTCACACTTCATGGGCTAGAGGATTCATTGA 32119

Qy 1046 GATGGGTTTACGTTGATTTGAACTTGAACCTGTGACGACTGTTCTGTTTGCATGGCAA 1105
Db 32118 GATGGGTTTACGTTGATTTGAACTTGAACCTGTGACGACTGTTCTGTTTGCATGGCAA 32059

Qy 1106 TTCTGACCTTTTATGGCAACACCCCTGGGCAACCCAGATTTGTAGATTGATGCC 1165
Db 32058 TTCTGACCTTTTATGGCAACACCCCTGGGCAACCCAGATTTGTAGATTGATGCC 31999

Qy 1166 AAAGTAGAATTTCCAGACAGTCCAAACCAAGGTATCAAGTGATGTTTCCAGAGTGAAGG 1225
Db 31998 AAAGTAGAATTTCCAGACAGTCCAAACCAAGGTATCAAGTGATGTTTCCAGAGTGAAGG 31939

Qy 1226 CTCTCACCGTGTCCAGGATTTCTGGGTTGTAAAGCAGTACTGCGCCATTTGTGACCCCTG 1285
Db 31938 CTCTCACCGTGTCCAGGATTTCTGGGTTGTAAAGCAGTACTGCGCCATTTGTGACCCCTG 31879

Qy 1286 TTTTITACCTAATCATCTGCTTTTATAGGACATGTTTATCCCATGCTCCGCGCAAGGA 1345
Db 31878 TTTTITACCTAATCATCTGCTTTTATAGGACATGTTTATCCCATGCTCCGCGCAAGGA 31819
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Qy 1346 TCCAGATTTCCAATAGCTGAAACCCCTGTATAGCTTTTCTCTATTCTGCTTACCCAA 1405
Db 31818 TCCAGATTTCCAATAGCTGAAACCCCTGTATAGCTTTTCTCTATTCTGCTTACCCAA 31759

Qy 1406 GACACATTTGAACCCCTCAGTAAGGCTATAGAGAGGCGCATAGCAGGGGCGAGCTCTCC 1465
Db 31758 GACACATTTGAACCCCTCAGTAAGGCTATAGAGAGGCGCATAGCAGGGGCGAGCTCTCC 31699

Qy 1466 CTTGTTTCTACAGCTCCATGATGAGGGGTTGACTGAGCCAGCAATCTTGTGTAGTGTC 1525
Db 31698 CTTGTTTCTACAGCTCCATGATGAGGGGTTGACTGAGCCAGCAATCTTGTGTAGTGTC 31639

Qy 1526 CAGTTGCAATATAATTAACAGTTTCAAGATCTAGAGGTACCTTTTGAAGAAACCCCTTCA 1585
Db 31638 CAGTTGCAATATAATTAACAGTTTCAAGATCTAGAGGTACCTTTTGAAGAAACCCCTTCA 31579

Qy 1586 GGGATATCTATCCACAGTAGCTGAGCAGCAAGGTGAACCTGAGATTTTGACCCACAC 1645
Db 31578 GGGATATCTATCCACAGTAGCTGAGCAGCAAGGTGAACCTGAGATTTTGACCCACAC 31519

Qy 1646 AATAAGGGGGGCCAATCTTTTCAAAATATTTGGCTTTCAGATACACTTCAATTACAT 1705
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Qy 1706 GCAATATTTGAGAGATTAACAGAAATTCAGCTCTTATGCCCTAACTGAGAAGAGCCACTG 1765
Db 31458 GCAATATTTGAGAGATTAACAGAAATTCAGCTCTTATGCCCTAACTGAGAAGAGCCACTG 31399

Qy 1766 CAAGTTGCAAGTTAGTACCCATGTGCAGCAGGCGCAGCTGAATCCAGAGCTTCCAAA 1825
Db 31398 CAAGTTGCAAGTTAGTACCCATGTGCAGCAGGCGCAGCTGAATCCAGAGCTTCCAAA 31339

Qy 1826 GTGGACACGAGGGGACTATTCTGTATGTCCTGATGCCACCAAGAGAGAGATGAGCTGAGC 1885
Db 31338 GTGGACACGAGGGGACTATTCTGTATGTCCTGATGCCACCAAGAGAGAGATGAGCTGAGC 31279

Qy 1886 GCTCTTGTCTGCGCCAAATGCATCCATGTGCATTTCAGTGTGCATTCAGCTTCAAAATAACA 1945
Db 31278 GCTCTTGTCTGCGCCAAATGCATCCATGTGCATTTCAGTGTGCATTCAGCTTCAAAATAACA 31219

Qy 1946 TGGCATTTTGGAACTTTGATCTGACATGTAAGACAGCCTACATATGGGGTGGGTGC 2005
Db 31218 TGGCATTTTGGAACTTTGATCTGACATGTAAGACAGCCTACATATGGGGTGGGTGC 31159

Qy 2006 AGGGCTCACACTTGTATCTTAGCATTTCGAGGCTGAGTGGGCGAGATGCTTGAGC 2065
Db 31158 AGGGCTCACACTTGTATCTTAGCATTTCGAGGCTGAGTGGGCGAGATGCTTGAGC 31099

Qy 2066 ACAGGAGTTCCAGACCGCTGAGCAACATGGCGAAATCCTGTCTCTTCAAGAAATAA-A 2124
Db 31098 ACAGGAGTTCCAGACCGCTGAGCAACATGGCGAAATCCTGTCTCTTCAAGAAATAA 31039

Qy 2125 ATAATAATAATAAT 2138
Db 31038 ATAATAATAATAAT 31025

RESULT 2
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LOCUS
DEFINITION AC146119 194464 bp DNA linear HTG 01-AUG-2003
PROGRESS *** 31 unordered pieces.
AC146119
ACCESSION AC146119 GI:33387073
VERSION HTG; HTGS PHASE1.
KEYWORDS Pan troglodytes (chimpanzee)
SOURCE Pan troglodytes
ORGANISM Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Pan.
REFERENCE 1 (bases 1 to 194464)
AUTHORS Wilson,R.K.
TITLE The sequence of Pan troglodytes clone
```


[illegible]

Thu Oct 14 09:37:19 2004

us-10-086-156-23.rge

AUTHORS
 TITLE Direct Submission
 JOURNAL Submitted (26-APR-2003) Department of Genetics, Washington University, 444 Forest Park Avenue, St. Louis, Missouri 63108, USA
 REFERENCE 7 (bases 1 to 135044)
 AUTHORS Wilson, R.
 TITLE Direct Submission
 JOURNAL Submitted (02-OCT-2003) Department of Genetics, Washington University, 444 Forest Park Avenue, St. Louis, Missouri 63108, USA
 COMMENT On Aug 8, 1999 this sequence version replaced gi:3907522.
 ----- Genome Center
 Center: Washington University Genome Sequencing Center
 Center code: WUGSC
 Web site: <http://genome.wustl.edu>
 Contact: sapiens@wustl.edu
 ----- Summary Statistics

 Center project name: H_DJ0756H11

NOTICE: This sequence may not represent the entire insert of this clone. It may be shorter because we only sequence overlapping clone sections once, or longer because we provide a small overlap between neighboring data submissions.

This sequence was finished as follows unless otherwise noted:
 all regions were double stranded, sequenced with an alternate chemistry, or covered by high quality data (i.e., phred quality >= 30); an attempt was made to resolve all sequencing problems, such as compressions and repeats; all regions were covered by sequence from more than one subclone; and the assembly was confirmed by restriction digest.

MAPPING INFORMATION:
 The sequence of this clone was established as part of a mapping and sequencing collaboration between the NHGRI Chromosome 7 Mapping Project (Eric D. Green, Director), John D. McPherson in the Department of Genetics (Washington University), and the Washington University Genome Sequencing Center. For additional information about the map position of this sequence, see <http://www.nhgri.nih.gov/DIR/OTB/CHR7>, send mailto:egreen@nhgri.nih.gov, or see <http://genome.wustl.edu>

SOURCE INFORMATION:
 This clone was derived from human PAC library RP4-4, prepared by Pieter de Jong and coworkers at <http://www.chori.org> using the method described by Ioannou et al., Nature Genetics 6:84-9 (1994). The library is from one male donor.
 The clone may be obtained either from Genome Systems, Inc. (<http://www.genomesystems.com>) or Research Genetics, Inc. (<http://www.resgen.com>); or from Pieter de Jong.

VECTOR: pCYPAC2

NEIGHBORING SEQUENCE INFORMATION:
 Actual start of this clone is at base position 1 of RP4-756H11
 actual end is at base position 135044 of RP4-756H11.

FEATURES

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 /clone_lib="RP4-4"
 59..349
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 369..488
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 494..800
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 835..1030
 /rpt_family="L2"
 1357..1436

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/rpt_family="MER1_type"
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repeat_region 14663..14965
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repeat_region 15509..15814
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Query Match 47.9%; Score 1031.4; DB 9; Length 135044;
Best Local Similarity 93.6%; Pred. No. 1.5e-232;
Matches 1143; Conservative 0; Mismatches 66; Indels 12; Gaps 6;

QY 926 AAAGCGCGCTGATTGGAACTCCCATTTGGTCCAGAGAGACAGAACATGAGAGAAAT 985
DB 82276 AAAGCGAGCTATATTGGAACTCCCATTTGGTCCAGAGAGGAGAAATGAGAGAAAT 82335

QY 986 CCCCTGTCCAGTGTGCTGAGGAGTATCCAACTT-CATGGGCTAGAGGATTCATTG 1044
DB 82336 CCCCTGTCCAGTGTGCTGAGGAGTATCCAACTTCCATGGGCTAGAGGATTCATTG 82395

QY 1045 AGATGGGTTTACGCTTGTGATTTGAACACCTGTGAGCACTGTTCTGTGTTGCAATGCA 1104
DB 82396 AGATAGGGTTTACGCTTGTGATTTGAACACCTGTGAGCACTGTTCTGTGTTGCAATGCA 82454

QY 1105 ATTCTGACCTTTTATGGCAACACACCCCTGGGACACCCAGATTTGTAGATTGAGATC 1164
DB 82455 ATTCTGACCTTTTATGGCAACACACCCCTGGGACACCCAGATTTGTAGATTGAGATC 82514

QY 1165 CAAAGGTAGAAATTTCCAGACAGTCCAAACCAAGGTATCAAGTATGTTTCCAGAGTGGAG 1224
DB 82515 CAAAGGTAGAAATTTCCAGACAGTCCAAACCA--TATCAAGTATGTTTCCAGAGTGGAG 82572

QY 1225 GCTCTCACGTTCCAGAGTTTCTGGGTTTGTAAAGCAGTACTGGCCATTTGTGACCT 1284
DB 82573 GCTCTCACGTTCCAGAGTTTCTGGGTTTGTAAAGCAGTACTGGCCATTTGTGACCT 82632

QY 1285 GTTTTATACCTAATCATCTGCTTTTATGGACATGTTTACCCGATCCCTGGCAAGG 1344
DB 82633 GTTTTATACCTAATCATCTGCTTTTATGGATATGGGTTTACCCGATCCCTGGCAAGG 82692

QY 1345 ATCCAGAAATTCATAGCTGAAACCCCTGTTATAGCTTTTCTCTTATTTCTGCTTACC 1404
DB 82693 ATCCAGAAATTCATAGCTGAAACCCCTG-TATATCTTTTCTCTTATTTGCTTACC 82751

QY 1405 AGACACATTTGAACCCCTCAGTAAGCTTATAGAGAGGCTATGAGAGGCGAGCTCTC 1464
DB 82752 AGACACATTTGAACCCCTCAGTAAGCTTATAGAGAGGCTATGAGAGGCGAGCTCTC 82811

QY 1465 CTTGTTTCTACAGTCTCATGATGAGGTTGACTGAGGCGAGCAATCTTGTAGGTG 1524
DB 82812 CTTGTTTCTACAGTCTCATGATGAGGTTGACTGAGGCGAGCAATCTTGTAGGTG 82871

QY 1525 ACAGTTGCAATATTAACAGTTTCAAGATCTAGAGTACCTTTTGAAGAACCCCTTC 1584
DB 82872 ACAGTTGCAATATTAACAGTTTCAAGATCTAGAGTACCTTTTGAAGAACCCCTTC 82931

QY 1585 AGGGATATCTATCCACAGTGTGAGGAGCAGCAAGGTGAACCTGAGATTTTGACCCACA 1644
DB 82932 AGGGATGCTATCTACAGCAGCTTGAGAGCAGCAAGGTGAACCTGAGATTTTGACCCACA 82991

QY 1645 CAATAAGG---GGGGGCGATCTTTTCAATAATTTTGGCTTCAAGATCACTTCAATAC 1701
DB 82992 CAATAAGGGTGGGGGCGATCTTTTCAATAATTTTGGCTTCAAGATCACTTCAATAC 83051
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QY 1702 ACATGCAAAATATTGAGAGATTAAACAGAAATTCAGCTCTTATGCTTAATCGAAGAGCC 1761
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QY 1762 ACTGCAAGTTGAGTTAGTACCCCATGTTGAGAGAGAGGAGCTGAATCCAGAGCTTCC 1821
DB 83112 ACTGCAAGTTGAGTTAGTACCCCATGTTGAGAGAGAGGAGCTGAATCCAGAGCTTCC 83171

QY 1822 CAAAGTGACACACAGCGGGGACTATTCCTGATGTCCTCCACCAAGAGAGAGAGATGAGCTG 1881
DB 83172 CAAAGTGACACACAGCGGGGACTATTCCTGATGTCCTCCACCAAGAGAGAGAGATGAGCTG 83231

QY 1882 AGGCGCTCTTGTCTGCTCCCAAAATGATCCCATGTCATTCAGTGTCCACCATTCATCA--- 1937
DB 83232 TGGTGTCTGCTGCTGCTCCCAAAATGATCCCATGTCATTCAGTGTCCACCATTCATCA 83291

QY 1938 AATAAATGAGGATTTCTTGGAACTTGTATCTGATGTAAGACAGAGCTTACATGAGG 1997
DB 83292 AATAAATGAGGATTTCTTGGAACTTGTATCTGATGTAAGACAGAGCTTACATGAGG 83351

QY 1998 GTGGTGAGGAGGCTCACACTTGTAACTTCTAGCACTTTGAGAGGCTGAGGTGGGAGATT 2057
DB 83352 CTGGTGAGGAGGCTCACACTTGTAACTTCTAGCACTTTGAGAGGCTGAGGTGGGAGATT 83411

QY 2058 GCTTGAGCACAGGAGTTCAGACAGGCTGAGCAACATGGGCAATCTCTGCTCTTCAAG 2117
DB 83412 GCTTGAGCACAGGAGTTCAGACAGGCTGAGCAACATGGGCAATCTCTGCTCTTCAAG 83471

QY 2118 AATAAATAATAATAATAAT 2138
DB 83472 AATAAATAATAATAATAAT 83492
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RESULT 4
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LOCUS BD183414 4807 bp DNA linear PAT 17-JUN-2003
DEFINITION Novel genes and proteins encoded by the genes.
ACCESSION BD183414
VERSION BD183414.1 GI:31875614
KEYWORDS JP 2002345492-A/127.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE
1 (bases 1 to 4807)
Chara,O., Negase,T. and Nakajima,D.
Novel genes and proteins encoded by the genes
Patent: JP 2002345492-A 127 03-DEC-2002;
KAZUSA DNA RESEARCH INSTITUTE
OS Homo sapiens (human)
PN JP 2002345492-A/127
PD 03-DEC-2002
PF 26-FEB-2002 JP 2002049009
PI OSAMU OHARA, TAKAHIRO NAGASE, DAISUKE NAKAJIMA
PC C12N15/09, C07K14/47//A61K31/711, A61K38/00, A61K48/00, A61P25/00,
A61P25/14,
PC A61P25/18, A61P35/00, C12N15/00, A61K37/02
CC Novel genes and proteins encoded by the genes FH Key
Location/Qualifiers
CDS (60)..(989).
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1. 4807
/organism="Homo sapiens"
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ORIGIN
Query Match 27.3%; Score 588.6; DB 6; Length 4807;
Best Local Similarity 96.2%; Pred. No. 4e-128;
Matches 603; Conservative 0; Mismatches 24; Indels 0; Gaps 0;

QY 230 CCGGCCAGCCCGCAGCGCGCGCTCATGCGCAGCGCTGCTCGCGCAGCCAGAGGATGG 289
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[illegible]

RESULT 5				PRI 04-NOV-2003
BC042482		1211 bp	mRNA	linear
LOCUS				
DEFINITION	Homo sapiens potassium channel tetramerisation domain containing 7,			
	mRNA (cDNA clone MGC:34731 IMAGE:5165722), complete cds.			
ACCESSION	BC042482			
VERSION	BC042482.1	GI:27503737		
KEYWORDS	MGC.			
SOURCE	Homo sapiens (human)			
ORGANISM	Homo sapiens			
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;				
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.				
1 (bases 1 to 1211)				
Strausberg,R.L., Feingold,E.A., Grouse,L.H., Derge,J.G.,				
Klausner R.D., Collins,F.S., Wagner L., Shenmen,C.M., Schuler,G.D.,				
Ahtschul,S.F., Zeeberg,B., Buetow,K.H., Schaefer,C.F., Bhat,N.K.,				
Hopkins,R.F., Jordan,H., Moore,T., Max,S.I., Wang,J., Heieh,F.,				
Diatchenko,K., Marusina,K., Farmer,A.A., Rubin,G.M., Hong,L.,				
Scapellato,M., Soares,M.B., Bonaldo,M.P., Casavant,T.J.,				
Scheetz,T.E., Brownstein,M.J., Ustin,T.B., Toshiyuki,S.,				
Carninci,P., Prange,C., Raja,S.S., Loquellano,N.A., Peters,G.J.,				
Abramson,R.D., Mullighan,S.J., Bosak,S.A., McEwan,P.J.,				
McKernan,K.J., Malek,J.A., Gunaratne,P.H., Richards,S.,				
Worley,K.C., Hale,S., Garcia,A.M., Gay,L.J., Hulcy,S.W.,				
Villalon,D.K., Muzny,D.M., Sodergren,E.J., Lu,X., Gibbs,R.A.,				
Fahney,J., Helton,E., Ketteman,M., Madan,A., Rodrigues,S.,				
Sanchez,A., Whiting,M., Madan,A., Young,A.C., Shevchenko,Y.,				
Bouffard,G.G., Blakesley,R.W., Touchman,J.W., Green,E.D.,				
Dickson,M.C., Rodriguez,A.C., Grimwood,J., Schmutz,J., Myers,R.M.,				
REFERENCE				
AUTHORS				

TITLE	JOURNAL	MEDLINE	PUBMED	REFERENCE	AUTHORS	TITLE	JOURNAL	REMARK	COMMENT	FEATURES	sour	gene	CDS	misc	ORIGIN	Query M	Best Lo
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REFERENCE 2 (bases 1 to 2576)
 AUTHORS Isegai,T., Otsuki,T. and Sugiyama,T.
 TITLE Direct Submission
 JOURNAL Submitted (24-OCT-2001) Takao Isegai, Helix Research Institute, Genomics Laboratory; 1532-3 Yana, Kisarazu, Chiba 292-0812, Japan (E-mail:genomics@hri.co.jp, Tel.81-438-52-3975, Fax.81-438-52-3986)
 COMMENT NEDO human cDNA sequencing project supported by Ministry of Economy, Trade and Industry of Japan; cDNA full insert sequencing; Research Association for Biotechnology (RAB); cDNA library construction; Helix Research Institute (HRI) (supported by Japan Key Technology Center etc.); 5'- and 3'-end one pass sequencing; RAB, HRI, and Biotechnology Center, National Institute of Technology and Evaluation; clone selection for full insert sequencing; RAB and HRI.

FEATURES
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CDS
 27..34; Score 587; DB 9; Length 2576;
 Query Match 27.3%; Best Local Similarity 96.0%; Pred. No. 8.6e-128; Matches 602; Conservative 0; Mismatches 25; Indels 0; Gaps 0;

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 230 CCGGCCACCGCCGAGCCGCGCTCATGCGAGCGCGTGTCTCGGCGAGCCAGAGGGATGG 289
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 290 TGGTAGTCACGGGGCGGAGCAGACGCCCTGTCAGGACGGTGCCTATGTCAGCTCTG 349
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 112 TGGTAGTCACGGGGCGGAGCAGACGCCCTGTCAGGACGGTGCCTATGTCAGCTCTG 171
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 350 ACGCGAAGACGACTTCTTGAGCGCGGCACCGCGAGCCGCGAGCGGGCGACGCGC 409
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 172 ACGCGAAGACGACTTCTTGAGCGCGGCACCGCGAGCCGCGAGCGGGCGACGCGC 231
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 410 TGCCCTCTGTCACAGGAGTTCTCTAGGTGTGTTCCTTTAAATCATCGAGGGGCTCACT 469
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 232 TGCCCTCTGTCACAGGAGTTCTCTAGGTGTGTTCCTTTAAATCATCGAGGGGCTCACT 291
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 292 TCACATACGCTGTCCACATCGCGCTGTACGAGACACCATGTTGACGCCATGTTC 351
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 530 GTGGGCGGCACATACATCCCGACGACTCCGAGGGCGGCTACTTTCATCCACCGAGATGGCA 589
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 352 GTGGGCGGCACATACATCCCGACGACTCCGAGGGCGGCTACTTTCATCCACCGAGATGGCA 411
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 590 CACACTTTGGAGATGTGTGAATTTCTGCGCTCAGGGGACCTCCCAACCGAGGGCGGTG 649
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 412 CACACTTTGGAGATGTGTGAATTTCTGCGCTCAGGGGACCTCCCAACCGAGGGCGGTG 471
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 650 TTCGAGCTGTGTACAAAGGCGCCACTATGCTATGCTATGCTATGCTATGCTATGCTATGCT 709
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 472 TTCGAGCTGTGTACAAAGGCGCCACTATGCTATGCTATGCTATGCTATGCTATGCTATGCT 531
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QY 710 AGAATCATGAGCCACTGAAGGGCGAGAGAGTTCGCGCAAGCGTTTCTGGGACTCATGCCCC 769
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 Db 532 AGAATCATGAGCCACTGAAGGGCGAGAGTTCGCGCAAGCGTTTCTGGGACTCATGCCCC 591
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 QY 770 ATTACAAAGACCACTTGGAGCGGATTTGGAGATCGCCCGGCTGCTGGGTTCCAGCGGA 829
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 Db 592 ATTACAAAGACCACTTGGAGCGGATTTGGAGATCGCCCGGCTGCTGGGTTCCAGCGGA 651
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 QY 830 AGGCCCGCTTGGCAGCTCAAGAGCT 856
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 Db 652 AGGCCCGCTTGGCAGCTCAAGAGCT 678
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RESULT 8
 LOCUS BD275557 1124 bp DNA linear PAT 17-JUL-2003
 DEFINITION MOLECULES OF THE IMMUNE SYSTEM.
 ACCESSION BD275557
 VERSION BD275557.1 GI:33085325
 KEYWORDS JP 2002540791-A/2.
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 REFERENCE 1 (bases 1 to 1124)
 AUTHORS Lu,D.A.M., Azimzai,Y., Baughn,M.R., Tang,T.Y., Lal,P. and Yue,H.
 TITLE MOLECULES OF THE IMMUNE SYSTEM
 JOURNAL Patent: JP 2002540791-A 2 03-DEC-2002;
 INCYTE PHARMACEUTICALS INC,Henry YUE,Preeti LAL,Tom Y TANG, Mariah R BAUGHN,Yalda AZIMZAI,Dyung Aina M LU
 COMMENT OS Homo sapiens
 PN JP 2002540791-A/2
 PD 03-DEC-2002
 PF 04-APR-2000 JP 2000609571
 PR 05-MAY-1999 US 60/132647,05-APR-1999 US 60/127852 PI
 dyung aina m lu,yalda azimzai,mariah r baughn,tom y tang, PI preeti lal,
 henry yue
 PI This description about <220> can't be interpreted CC <220>
 CC <221> misc feature
 CC <223> Incyte ID No.: 2751129CB1
 FH Key Location/Qualifiers
 source 1. .1124
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ORIGIN
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 Best Local Similarity 99.3%; Pred. No. 1.1e-122;
 Matches 578; Conservative 0; Mismatches 3; Indels 1; Gaps 1;
 275 GAGCCAGAGGATGTTGGTAGTCAACGGGGCGGAGCAGACGCGTCTGTCAGGACGGTG 334
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 Db 17 GAGCCAGAGGATGTTGGTAGTCAACGGGGCGGAGCAGACGCGTCTGTCAGGACGGTG 76
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 QY 335 CCATGTCCAGCTCTGACGCCGAGAGACGACTTCTGAGAGCGGCGCCACGCGCCACGC 394
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 Db 77 CCATGTCCAGCTCTGACGCCGAGAGACGACTTCTGAGAGCGGCGCCACGCGCCACGC 136
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 QY 395 AGCGGGGCGACGGCTGCCCTGCTGTCACAGAGTTTCTGAGGTGTTCCCTTTAACA 454
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 Db 137 AGCGGGGCGACGGCTGCCCTGCTGTCACAGAGTTTCTGAGGTGTTCCCTTTAACA 196
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 QY 455 TCGGAGGGGCTCACTTCACTACGCTGTCCACACTGCGGTGTCTAGAAAGACACCATGT 514
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 Db 197 TCGGAGGGGCTCACTTCACTACGCTGTCCACACTGCGGTGTCTAGAAAGACACCATGT 256
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 QY 515 TGGCAGCGCATGTTTCAGTGGGCGGCCTACTATCCCAACAGACTCCGAGGGCGGTACTTCA 574
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 Db 257 TGGCAGCGCATGTTTCAGTGGGCGGCCTACTATCCCAACAGACTCCGAGGGCGGTACTTCA 316
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FEATURES
    source
    1..680
    Location/Qualifiers
        Lexicon Genetics Incorporated (US)

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ORIGIN

Query Match	18.0%;	Score 387.8;	DB 6;	Length 680;	
Best Local Similarity	88.2%;	Pred. No. 8.2e-81;			
Matches 456;	Conservative 1;	Mismatches 3;	Indels 57;	Gaps 1;	

QY	146	CGGGTCAGGCCCCAGCTTGGCGCGGAGCGGGTCTGGCGGTTGAGGAGCCACCGCCCTCCCGC	205
DB	1	CGGGTCAGGCCCCAGCTGCGGCGGAGCGGGTCTGGCGGTTGAGGAGCCACCGCCCTCCCGC	60
QY	206	CTCGGCACATGCCTCTTCGCCCCCTTCGGCCAGCCCGCAGCGCGCGCGTCAATGCCAGGCG	265
DB	61	CTCGGCACATGCCTCTTCGCCCCCTTCGGCCAGCCCGCAGCGCGCGCGTSAATGCCAGGCG	121
QY	266	CTGCTCGGC-----	274
DB	121	CTGCTCGCGCGTAGGAGTCCCGGGGCCCGGYCTCCGCCGCCCGGAGCGCGGCCAC	180
QY	275	-----GAGCCAGAGGATGGTGTAGTCAACGGGGCGGGAGCCACAGACGCGTCTGTCAGG	328
DB	181	TGCCCGAGCCAGAGGATGGTGTAGTCAACGGGGCGGGAGCCACAGACGCGTCTGTCAGG	240
QY	329	ACGGTGCCATGTCCAGCTCTGAGCCCGAAGACGACTTTCTGGAGCCGGGCAACGCCGACGG	388
DB	241	ACGGTGCCATGTCCAGCTCTGAGCCCGAAGACGACTTTCTGGAGCCGGGCAACGCCGACGG	300
QY	389	CCACGAGGCGGGGCAACGGCTGCCCTGTGCCACAGAGATTTCCGTGAGGTTGTTCCCC	448
DB	301	CCACGAGGCGGGGCAACGGCTGCCCTGTGCCACAGAGATTTCCGTGAGGTTGTTCCCC	360
QY	449	TTAACATCGAGGGGCTCACTTCACTACAGCCTGTCCACACTCGCGGTGTACCAAGACA	508
DB	361	TTAACATCGAGGGGCTCACTTCACTACAGCCTGTCCACACTCGCGGTGTACCAAGACA	420
QY	509	CCATGTTGGGACCATGTCTCAGTGGGGGCGCACTACATCCCCACAGACTCCGAGGGCCGGT	568
DB	421	CCATGTTGGGACCATGTCTCAGTGGGGGCGCACTACATCCCCACAGACTCCGAGGGCCGGT	480
QY	569	ACTTCATCGACCGAGATGGCACACACTTTGGAGATGT	605
DB	481	ACTTCATCGACCGAGATGGCACACACTTTGGGATGT	517

RESULT 11	
G51111/c	
LOCUS	
DEFINITION	SHGC-80071 Human Homo sapiens STS genomic, sequence tagged site.
ACCESSION	G51111
VERSION	G51111.1 GI:5222288
KEYWORDS	STS.
SOURCE	Homo sapiens (human)
ORGANISM	Homo sapiens Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo. 1 (bases 1 to 374) Olivier,M. and Cox,D.R. Unpublished, Olivier, M., Cox, D.R. (2000) Unpublished (2000)
REFERENCE	
AUTHORS	
TITLE	
JOURNAL	
COMMENT	

Contact: Michael Olivier, David R. Cox
Stanford Human Genome Center
Stanford University School of Medicine
4905 Miranda Ave. 2nd Fl., Palo Alto, CA 94035, USA
Tel: (650) 320-5800
Fax: (650) 320-5801
Email: olivier@hgc.stanford.edu
Primer A: TCGGGTAAACCATGTCCTAAAA

Primer B: GAGTATTCCAACACTTCATGGGC
STS size: 325
PCR Profile:

Initial incubation:	95 degrees C for 10 minutes
Denaturation:	94 degrees C for 30 seconds
Annealing:	60 degrees C for 30 seconds
Polymerization:	72 degrees C for 23 seconds
PCR Cycles:	30
Thermal Cycler:	Perkin Elmer 9700
Protocol:	
Template:	25 ng
Primer:	each 1 uM
dNTPs:	each 200 uM
AmpliTaq Gold Polymerase:	0.07 units/ul
Total Vol:	5 ul

Template:	25 ng
Primer:	each 1 μ M
dNTPs:	each 200 μ M
AmpliTaq Gold Polymerase:	0.07 units/
Total Vol:	5 μ l

Buffer: MgCl₂: 2.5 mM
KCl: 50 mM
Tris-HCl: 10 mM
pH: 8.3

BAC ends sequenced at TIGR from the RPC111 BAC library. Designed and developed at the Stanford Human Genome Center.

FEATURES
SOURCE

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STS
prin
prin
ORIGIN

Query Match	17.4%;	Score 374;	DB 11;	Length 374;
Best Local Similarity	100.0%;	Pred. No. 1.4e-77;		
Matches 374;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;
QY	977	AGAGAAATCCCCTGTCACAGTTGCCTGCAGAGAGTATTCACACACTTCATGGGCTAGAGGA	1036	
Db	374	AGAGAAATCCCCTGTCACAGTTGCCTGCAGGAGTATTCACACACTTCATGGGCTAGAGGA	315	
QY	1037	TTCCATTTGAGATGGGGTTTACGTCCTTGATTTGAACACCTGTCAGCACCTGTTCTCTGTTT	1096	
Db	314	TTCCATTTGAGATGGGGTTTACGTCCTTGATTTGAACACCTGTCAGCACCTGTTCTCTGTTT	255	
QY	1097	GCATGGCAATTCGACCCCTTTTATGGCAACAACACCCCTGGGCAACCCAGATTTGTAGA	1156	
Db	254	GCATGGCAATTCGACCCCTTTTATGGCAACAACACCCCTGGGCAACCCAGATTTGTAGA	195	
QY	1157	TTGAGATCCAAAGGTAGAAATTCACAGACAGTCCAAACCAAGGTATCAAGTATGTTTCCAG	1216	
Db	194	TTGAGATCCAAAGGTAGAAATTCACAGACAGTCCAAACCAAGGTATCAAGTATGTTTCCAG	135	
QY	1217	AGTGGNAGGCTCTCACCGTGTCCCAGGATTTCTGGGGTTTGTAAGCAGACTCTGGCCATTT	1276	
Db	134	AGTGGNAGGCTCTCACCGTGTCCCAGGATTTCTGGGGTTTGTAAGCAGACTCTGGCCATTT	75	
QY	1277	GTGACCCCTGTTTTTACCTAAATCATTCGTCTCTTTTTAGGACATGGTTTTACCCGATCCCT	1336	
Db	74	GTGACCCCTGTTTTTACCTAAATCATTCGTCTCTTTTTAGGACATGGTTTTACCCGATCCCT	15	
QY	1337	GGCAAAAGGATCCAG	1350	
Db	14	GGCAAAAGGATCCAG	1	

RESULT 12				
AX575786				
LOCUS	AX575786	363 bp	DNA	linear
DEFINITION	Sequence 4 from Patent WO02068626.			PAT 07-JAN-2003

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ACCESSION AX575786
VERSION AX575786.1 GI:27552274
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE
1
AUTHORS Fridde,C.J., Gexhardt,B., Hilbun,E. and Turner,C.A.
TITLE Novel human ion channel-related proteins and polynucleotides
JOURNAL encoding the same
Patent: WO 0206826-A 4 06-SEP-2002;
Lexicon Genetics Incorporated (US)
FEATURES
Location/Qualifiers
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Best Local Similarity 99.1%; Pred. No. 1.1e-63;
Matches 317; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
QY 286 ATGGTGGTAGTCACGGGGCGGAGCCAGACAGCCGTCGTCAGGACGGTGCCATGTCCAGC 345
Db 1 ATGGTGGTAGTCACGGGGCGGAGCCAGACAGCCGTCGTCAGGACGGTGCCATGTCCAGC 60
QY 346 TGTGACGGCGAAGACGACTTCTGAGCGGGCCAGCGCCAGCGCCAGCGCGGGGGCAC 405
Db 61 TGTGACGGCGAAGACGACTTCTGAGCGGGCCAGCGCCAGCGCGGGGGCAC 120
QY 406 GGGTGGCCCTCTGCCACAGAGTTCTGAGGTTGTTCCCTTAACATCGGAGGGGCT 465
Db 121 GGGTGGCCCTCTGCCACAGAGTTCTGAGGTTGTTCCCTTAACATCGGAGGGGCT 180
QY 466 CACTTCACTACACGCTGTCCACACTGCGGTGCTACGAGACACCATGTTGGCAGCCATG 525
Db 181 CACTTCACTACACGCTGTCCACACTGCGGTGCTACGAGACACCATGTTGGCAGCCATG 240
QY 526 TTCAGTGGGGCGGACATACATCCCAACAGATCCGAGGGCGGTACTTTCATGACCGAGAT 585
Db 241 TTCAGTGGGGCGGACATACATCCCAACAGATCCGAGGGCGGTACTTTCATGACCGAGAT 300
QY 586 GGCACACACTTTGGAGATGT 605
Db 301 GGCACACACTTTGGTATGT 320

RESULT 13
AC117185/c
LOCUS Mus musculus BAC clone RP23-37M7 from 8, complete sequence.
DEFINITION AC117185
ACCESSION AC117185
VERSION AC117185.2 GI:21536193
KEYWORDS HTG.
SOURCE Mus musculus (house mouse)
ORGANISM Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
REFERENCE
1
AUTHORS Haglund,K. and Schatzkammer,K.
TITLE The sequence of Mus musculus BAC clone RP23-37M7
JOURNAL Unpublished (2001)
REFERENCE
2 (bases 1 to 188791)
AUTHORS Wilson,R.
TITLE Sequencing of Mus musculus
JOURNAL Unpublished (2001)
REFERENCE
3 (bases 1 to 188791)
AUTHORS McPherson,J.D. and Waterston,R.H.
TITLE Direct Submission
JOURNAL Submitted (08-APR-2002) Genome Sequencing Center, 4444 Forest Park
Parkway, St. Louis, MO 63108, USA
REFERENCE
4 (bases 1 to 188791)
AUTHORS McPherson,J.D. and Waterston,R.H.
TITLE Direct Submission
JOURNAL Submitted (21-JUN-2002) Genome Sequencing Center, 4444 Forest Park
Parkway, St. Louis, MO 63108, USA
REFERENCE
5 (bases 1 to 188791)
AUTHORS Wilson,R.
TITLE Direct Submission
JOURNAL Submitted (05-NOV-2003) Department of Genetics, Washington
University, 4444 Forest Park Avenue, St. Louis, Missouri 63108, USA
On Jun 21, 2002 this sequence version replaced gi:20069729.
----- Genome Center
Center: Washington University Genome Sequencing Center
Center code: WUGSC
Web site: http://genome.wustl.edu
Contact: submissions@watson.wustl.edu
----- Summary Statistics
----- Center project name: M_BA0037M07
-----

REFERENCE
AUTHORS McPherson,J.D. and Waterston,R.H.
TITLE Direct Submission
JOURNAL Submitted (21-JUN-2002) Genome Sequencing Center, 4444 Forest Park
Parkway, St. Louis, MO 63108, USA
REFERENCE
AUTHORS Wilson,R.
TITLE Direct Submission
JOURNAL Submitted (05-NOV-2003) Department of Genetics, Washington
University, 4444 Forest Park Avenue, St. Louis, Missouri 63108, USA
On Jun 21, 2002 this sequence version replaced gi:20069729.
----- Genome Center
Center: Washington University Genome Sequencing Center
Center code: WUGSC
Web site: http://genome.wustl.edu
Contact: submissions@watson.wustl.edu
----- Summary Statistics
----- Center project name: M_BA0037M07
-----

NOTICE: This sequence may not represent the entire insert of this
clone. It may be shorter because we only sequence overlapping
clone sections once, or longer because we provide a small overlap
between neighboring data submissions.

This sequence was finished as follows unless otherwise noted:
all regions were double stranded, sequenced with an alternate
chemistry, or covered by high quality data (i.e., phred quality >=
30); an attempt was made to resolve all sequencing problems, such
as compressions and repeats; all regions were covered by sequence
from more than one subclone; and the assembly was confirmed by
restriction digest.

MAPPING INFORMATION:
Mapping information for this clone was provided by Dr. Wes Warren,
Department of Genetics, Washington University, St. Louis MO. For
additional information about the map position of this sequence, see
http://genome.wustl.edu

SOURCE INFORMATION:
The RP23-23 BAC Library has been constructed by Kazutoyo Oseawa
and Minako Tatenio in the laboratory of Pieter de Jong
(http://www.chori.org) from female C57BL/6J mouse kidney and/or
brain genomic DNA. The clone and detailed information can be
obtained from Research Genetics, Inc. (http://www.resgen.com) or
Pieter de Jong and coworkers at http://www.chori.org

NEIGHBORING SEQUENCE INFORMATION:
This sequence is the entire insert of the clone. This clone is
overlapped by AC122830.
Location/Qualifiers
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/db_xref="taxon:10090"
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/clone_lib="RP23-23"
6..531
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744..1012
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1386..2293
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2343..2550
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3654..3800
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3835..3997
/rpt_family="Alu"
4486..4563
/rpt_family="ERV1"

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DEFINITION Mus musculus BAC clone RP23-224I23 from 8, complete sequence.
ACCESSION AC122830
VERSION AC122830.4 GI:29469632
KEYWORDS HTG.
SOURCE Mus musculus (house mouse)
ORGANISM Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
REFERENCE 1 (bases 1 to 257003)
AUTHORS Scott, K., Harkins, R., Cotton, M., Spalding, L., Creason, K., Mangiapanello, L. and Delaney, K.
TITLE The sequence of Mus musculus BAC clone RP23-224I23
JOURNAL Unpublished (2001)
REFERENCE 2 (bases 1 to 257003)
AUTHORS Wilson, R.
TITLE Sequencing of Mus musculus
JOURNAL Unpublished (2001)
REFERENCE 3 (bases 1 to 257003)
AUTHORS McPherson, J.D. and Waterston, R.H.
TITLE Direct Submission
JOURNAL Submitted (25-MAY-2002) Genome Sequencing Center, 4444 Forest Park Parkway, St. Louis, MO 63108, USA
REFERENCE 4 (bases 1 to 257003)
AUTHORS McPherson, J.D. and Waterston, R.H.
TITLE Direct Submission
JOURNAL Submitted (01-SEP-2002) Genome Sequencing Center, 4444 Forest Park Parkway, St. Louis, MO 63108, USA
REFERENCE 5 (bases 1 to 257003)
AUTHORS McPherson, J.D. and Waterston, R.H.
TITLE Direct Submission
JOURNAL Submitted (02-APR-2003) Genome Sequencing Center, 4444 Forest Park Parkway, St. Louis, MO 63108, USA
REFERENCE 6 (bases 1 to 257003)
AUTHORS Wilson, R.
TITLE Direct Submission
JOURNAL Submitted (08-NOV-2003) Department of Genetics, Washington University, 4444 Forest Park Avenue, St. Louis, Missouri 63108, USA
COMMENT On Apr 2, 2003 this sequence version replaced gi:22539363.
----- Genome Center
Center: Washington University Genome Sequencing Center
Center code: WUGSC
Web site: <http://genome.wustl.edu>
Contact: submissions@watson.wustl.edu
----- Summary Statistics
Center project name: M_BA0224I23

NOTICE: This sequence may not represent the entire insert of this clone. It may be shorter because we only sequence overlapping clone sections once, or longer because we provide a small overlap between neighboring data submissions.

This sequence was finished as follows unless otherwise noted: all regions were double stranded, sequenced with an alternate chemistry, or covered by high quality data (i.e., phred quality >= 30); an attempt was made to resolve all sequencing problems, such as compressions and repeats; all regions were covered by sequence from more than one subclone; and the assembly was confirmed by restriction digest.

MAPPING INFORMATION:

Mapping information for this clone was provided by Dr. Wes Warren, Department of Genetics, Washington University, St. Louis MO. For additional information about the map position of this sequence, see <http://genome.wustl.edu>

SOURCE INFORMATION:

The RPCI-23 BAC Library has been constructed by Kazutoyo Oseigawa and Minako Tateno in the laboratory of Pieter de Jong (<http://www.chori.org>) from female C57BL/6J mouse kidney and/or brain genomic DNA. The clone and detailed information can be obtained from Research Genetics, Inc. (<http://www.resgen.com>) or Pieter de Jong and coworkers at <http://www.chori.org>

NEIGHBORING SEQUENCE INFORMATION:

This sequence is the entire insert of the clone. This clone is overlapped by AC117185 and AC116323.

FEATURES	Location/Qualifiers
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	/db_xref="taxon:10090"
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repeat_region	923..1089
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trna	complement(1012..1087)
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	/note="Likely pseudogene (HMM Sc=18.64 / Sec struct Sc=4.38)"
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repeat_region	1669..1779
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repeat_region	1874..1967
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repeat_region	3001..3109
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repeat_region	3187..3385
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repeat_region	3396..3594
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repeat_region	3727..3832
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repeat_region	7821..7933
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repeat_region 15425..15923
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Best Local Similarity 83.4%; Score 293.6; DB 10; Length 257003;
Matches 357; Conservative 0; Mismatches 69; Indels 2; Gaps 2;

QY 429 GTTCTCAGGTGTTCCCTTAACATCGGAGGGGCTCATTCTACTACACCGCTGTGCAC 488
Db 55806 GTTCTCAGTTCGTCTCTTAACATTTGGAGGGGCTCACITTTACACGCTGATAGTCTAC 55747

QY 489 ACTGGGTGCTACGAGACACATGTTGGCAGCCATGTTTCAGTGGCGGCACTACATCCC 548
Db 55746 TCTGCAGCACTATGAAGACA-CATGCTGGCTGTCATGTTTAGAGGGCGGCATTACATCCC 55688

QY 549 CACAGACTCCGAGGGCGGCTACTTTCATCGACCGAGATGGCACACACTTTGGAGATGTGCT 608
Db 55687 TACAGACTCCAGGATTGGTACTTCATCAACAGACAGACACACACTTTGGAGATGGCT 55628

QY 609 GAAATTCCTGGCTCAGGGAGCTCCACCCACAGGAGCGTGTTCAGCTGTGTACAAAGA 668
Db 55627 GAACTTCTGCATTTCAGGGAGCTGCCACCCGGGAGCAAGTGCAGCTGTGCACAAAGA 55568
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QY 669 GGCCAGTACTATGCCATCGGCGCCCTCTCTGGAGCAGCTGGAGAACATCGACCACTGAA 728
Db 55567 GGTCCAGTACTATGCCATTTGGACCCCTCTCTGGAGCAGCTGGAGAACATCGACCACTGAA 55508

QY 729 GGCGGAGAGGTGCGCCCAAGCGTTTCTGGGACTCATGCCCTATTACAAAGACCACTTGA 788
Db 55507 GGTGAGAGGTGCGCCAGACCTTCTCTGGGCTCATGTCC-ATTACAGGACCACTTGA 55449

QY 789 GCGGATTGTGAGATCGCCCGGCTGCGTGGTTCAGCGGAGAGCGCGCTTTGCCAAGCT 848
Db 55448 GCGGATAGTGGCGATTGCCAGCTTTCATACGATACAGCGGAGAGCGCGCTTTGCCAAGCT 55389

QY 849 CAAGAGCT 856
Db 55388 GAAAGTCT 55381

RESULT 15
BC051544 LOCUS
DEFINITION Mus musculus potassium channel tetramerisation domain containing 7, mRNA (CDNA clone IMAGE:5254261), partial cds.
ACCESSION BC051544
VERSION BC051544.1 GI:30186133
KEYWORDS Mus musculus (house mouse)
SOURCE Mus musculus
ORGANISM Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
REFERENCE 1 (bases 1 to 1103)
AUTHORS Strausberg, R.L., Feingold, E.A., Grouse, L.H., Derge, J.G., Klausner, R.D., Collins, P.S., Wagner, C.M., Shenmen, C.M., Schuler, G.D., Altschul, S.F., Zeeberg, B., Buetow, K.H., Schaefer, C.F., Bhat, N.K., Hopkins, R.F., Jordan, H., Moore, T., Max, S.I., Wang, J., Hsieh, P., Diatchenko, L., Marusina, K., Farmer, A.A., Rubin, G.M., Hong, L., Stapleton, M., Soares, M.B., Bonaldo, M.F., Casavant, T.L., Scheetz, T.E., Brownstein, M.J., Usdin, T.B., Toshiyuki, S., Carninci, P., Prange, C., Raha, S.S., Loquellano, N.A., Peters, G.J., Abramson, R.D., Mullahy, S.J., Bosak, S.A., McEwan, P.J., McKernan, K.B., Malek, J.A., Gunaratne, P.H., Richards, S., Worley, K.C., Hale, S., Garcia, A.M., Gay, L.J., Hulyk, S.W., Villalon, D.K., Muzny, D.M., Sodergren, E.J., Lu, X., Gibbs, R.A., Fahey, J., Helton, E., Kettelman, M., Madan, A., Rodriguez, S., Sanchez, A., Whiting, M., Madan, A., Young, A.C., Shevchenko, Y., Bouffard, G.G., Blakesley, R.W., Touchman, J.W., Green, E.D., Dickson, M.C., Rodriguez, A.C., Grimwood, J., Schmutz, J., Myers, R.M., Butterfield, Y.S., Krzywinski, M.I., Skalska, U., Smal, M.A., Schnerch, A., Schein, J.E., Jones, S.J. and Marra, M.A.
Generation and initial analysis of more than 15,000 full-length human and mouse cDNA sequences
Proc. Natl. Acad. Sci. U.S.A. 99 (26), 16899-16903 (2002)
22388257
12477932
REFERENCE 2 (bases 1 to 1103)
AUTHORS Strausberg, R.
TITLE Direct Submission
JOURNAL Submitted (28-APR-2003) National Institutes of Health, Mammalian Gene Collection (MGC), Cancer Genomics Office, National Cancer Institute, 31 Center Drive, Room 11A03, Bethesda, MD 20892-2590, USA
REMARK NIH-MGC Project URL: http://mgc.nci.nih.gov
COMMENT Contact: MGC help desk
Email: cgaps-r@mail.nih.gov
Tissue Procurement: Gilbert Smith, Ph.D.
cDNA Library Preparation: M. Bento Soares, University of Iowa
cDNA Library Arrayed by: The I.M.A.G.E. Consortium (ILNL)
DNA Sequencing by: Institute for Systems Biology
http://www.systemsbio.org
contact: amadan@systemsbiology.org
Anup Madan, Jessica Fahey, Brin Helton, Mark Kettelman, Anuradha Madan, Stephanie Rodrigues, Amy Sanchez and Michelle Whiting
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Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at: <http://image.llnl.gov>
Series: IRAK Plate: 113 Row: 1 Column: 15.

FEATURES

Source

Location/Qualifiers

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/note="Vector: pT7T3-Pac"

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The N-terminal, cytoplasmic tetramerisation domain (Tt) of
voltage-gated K+ channels encodes molecular determinants
for subfamily-specific assembly of alpha-subunits into
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the BTB/POZ domain pfam00651"
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ORIGIN

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Db	6	GAGCGCGAGGCGCGTACTTCATCGATCGATGSCACACACTTTGGAGATGCTGAAC	65	
Qy	613	TTCTTGGCGTCAAGGACCTCCACCGAGGAGCGTGTTCGAGCTGTGTACAAAGAGGCC	672	
Db	66	TTCTTGGCGTTCAGGGAGACTGCCCCCAGGGAGCAATGCGAGCTGTGCACAGGAGGCC	125	
Qy	673	CAGTACTATGCCATCGGGCCCTCTCTGGAGCAGCTGGAGAACATGCAGCCACTGAAGGCG	732	
Db	126	CAGTACTATGCCATCGGGCCCTCTCTGGAGCAGCTGGAGAACATGCAGCCACTGAAGGCG	185	
Qy	733	GAGAAGGTGCGCAAGCGTTTCTGGGACTCATGCCCTATTACAAAGACCACTTGGAGCGG	792	
Db	186	GAGAAGGTGCGCGAGCGCTTCTGGGACTCATGCCCTATTACAAAGACCACTTGGAGCGG	245	
Qy	793	ATTGTGGAGATCGCCGGCTGCGGTCCAGCGGAGGCCCGCTTTGCCAAGCTCAAG	852	
Db	246	ATTGTGGAGATTCGCCGGCTTCGCGAGTACAGCGAGGCCCGCTTTGCCAAGCTCAAA	305	
Qy	853	AGCT 856		
Db	306	GTCT 309		

GenCore version 5.1.6
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: October 8, 2004, 08:34:58 ; Search time 1029 Seconds
(without alignments)
10612.096 Million cell updates/sec

Title: US-10-086-156-23
Perfect score: 2154
Sequence: 1 atgacgatggcggttttgcg.....taataaaaaaaaaaaaaa 2154

Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 1.0

Searched: 3340653 seqs, 2534783454 residues
Total number of hits satisfying chosen parameters: 6681306

Minimum DB seq length: 0
Maximum DB seq length: 2000000000
Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications NA:*

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
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2	587	27.3	2576	16	US-10-094-749-1045
3	585.4	27.2	1068	16	US-10-120-988-408
4	465	21.6	519	13	US-10-296-115-18
5	417	19.4	1100	13	US-10-027-632-31358
6	417	19.4	1100	16	US-10-027-632-31358
7	387.8	18.0	680	14	US-10-024-579-8
8	315.2	14.6	363	14	US-10-024-579-4
9	174	8.1	473	9	US-09-864-761-1385
10	174	8.1	583	15	US-10-086-156-29
11	172.4	8.0	321	14	US-10-024-579-6
12	170.4	7.9	173	9	US-09-864-761-18144
13	116.4	5.4	18534	13	US-10-240-425-1575
14	116.4	5.4	60430	13	US-10-087-192-1732

c 15	116.2	5.4	646	13	US-10-027-632-110966	Sequence 110966,
c 16	116.2	5.4	646	13	US-10-027-632-110967	Sequence 110967,
c 17	116.2	5.4	646	13	US-10-027-632-110968	Sequence 110968,
c 18	116.2	5.4	646	16	US-10-027-632-110966	Sequence 110966,
c 19	116.2	5.4	646	16	US-10-027-632-110967	Sequence 110967,
c 20	116.2	5.4	646	16	US-10-027-632-110968	Sequence 110968,
c 21	111	5.2	535	13	US-10-027-632-281283	Sequence 281283,
c 22	111	5.2	535	16	US-10-027-632-281283	Sequence 281283,
c 23	111	5.2	43871	17	US-10-741-601-5628	Sequence 5628, Ap
c 24	110.8	5.1	804	15	US-10-198-846-4375	Sequence 4375, Ap
c 25	110.6	5.1	535	13	US-10-027-632-281282	Sequence 281282,
c 26	110.6	5.1	535	16	US-10-027-632-281282	Sequence 281282,
c 27	110.4	5.1	2094	13	US-10-027-632-99288	Sequence 99288, A
c 28	110.4	5.1	2094	13	US-10-027-632-99288	Sequence 99288, A
c 29	110.4	5.1	2094	16	US-10-027-632-99288	Sequence 99288, A
c 30	110.4	5.1	2094	16	US-10-027-632-99289	Sequence 99289, A
c 31	110	5.1	87869	17	US-10-717-597-194	Sequence 194, App
c 32	109.8	5.1	1595	9	US-09-822-849A-250	Sequence 250, App
c 33	109.8	5.1	2027	16	US-10-104-047-100	Sequence 100, App
c 34	109.4	5.1	227931	16	US-10-085-117-274	Sequence 274, App
c 35	109.4	5.1	325348	16	US-10-085-117-358	Sequence 358, App
c 36	109.2	5.1	28667	16	US-10-264-237-2863	Sequence 2863, Ap
c 37	109.2	5.1	28668	16	US-10-264-237-2864	Sequence 2864, Ap
c 38	109	5.1	80420	17	US-10-322-281-42	Sequence 42, Appl
c 39	106.8	5.0	168198	17	US-10-322-696-88	Sequence 88, Appl
c 40	106.2	4.9	1246	13	US-10-027-632-122821	Sequence 122821,
c 41	106.2	4.9	1246	13	US-10-027-632-122822	Sequence 122822,
c 42	106.2	4.9	1246	16	US-10-027-632-122821	Sequence 122821,
c 43	106.2	4.9	1246	16	US-10-027-632-122822	Sequence 122822,
c 44	106.2	4.9	3139	13	US-10-027-632-115236	Sequence 115236,
c 45	106.2	4.9	3139	13	US-10-027-632-115237	Sequence 115237,

ALIGNMENTS

RESULT 1
US-10-086-156-23
; Sequence 23, Application US/10086156
; Publication No. US20030054989A1
; GENERAL INFORMATION:
; APPLICANT: Bristol-Myers Squibb Company
; TITLE OF INVENTION: POLYNUCLEOTIDE ENCODING TWO NOVEL HUMAN POTASSIUM CHANNEL BETA-SU
; FILE REFERENCE: D0115NP
; CURRENT APPLICATION NUMBER: US/10/086,156
; CURRENT FILING DATE: 2002-02-28
; PRIOR APPLICATION NUMBER: US 60/272,190
; PRIOR FILING DATE: 2001-02-28
; PRIOR APPLICATION NUMBER: US 60/274,258
; PRIOR FILING DATE: 2001-03-07
; NUMBER OF SEQ ID NOS: 98
; SOFTWARE: Patent in version 3.0
; SEQ ID NO 23
; LENGTH: 2154
; TYPE: DNA
; ORGANISM: homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)..(1029)
US-10-086-156-23

Query Match 100.0%; Score 2154; DB 15; Length 2154;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 2154; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 ATGACGATGGCGGTTTTCGGAATAGAAAGGGGAAAGGACCACTCAGCGCGCGCG 60
Db 1 ATGACGATGGCGGTTTTCGGAATAGAAAGGGGAAAGGACCACTCAGCGCGCGCG 60
Qy 61 CTGGCGCTGCTGCTTTCGACCTGGGAGCTTCTTGCATCAGGGCGGAACAGCGCG 120
Db 61 CTGGCGCTGCTGCTTTCGACCTGGGAGCTTCTTGCATCAGGGCGGAACAGCGCG 120

121 GCCTCGCCCACTAGCGGAGCGGTGCGGTGAGCCCGCCAGCTGGCGCGGAGCGGTCGGC 180
121 GCCTCGCCCACTAGCGGAGCGGTGCGGTGAGCCCGCCAGCTGGCGCGGAGCGGTCGGC 180
181 GTTGAAGGAGCCACCGCCCTCCCGCTCGCGCACTGCGCTCTCGCCCGCCCTCGGCGCAGCCC 240
181 GTTGAAGGAGCCACCGCCCTCCCGCTCGCGCACTGCGCTCTCGCCCGCCCTCGGCGCAGCCC 240
241 GCAGCCGCGCGCTCATGCGGAGCGGTGCTGCGCGAGCCAGAGGAGTGGTGGTCAAG 300
241 GCAGCCGCGCGCTCATGCGGAGCGGTGCTGCGCGAGCCAGAGGAGTGGTGGTCAAG 300
301 GGGCGGAGCCAGACAGCGCTGCTGAGCGGTGCTGAGCGGTGCTGAGCGCGGAGAC 360
301 GGGCGGAGCCAGACAGCGCTGCTGAGCGGTGCTGAGCGGTGCTGAGCGCGGAGAC 360
361 GACTTTCTGAGCGCGCCACCGCGGAGCCAGCGGCGGAGCGGCTGCGCCCTGCTG 420
361 GACTTTCTGAGCGCGCCACCGCGGAGCCAGCGGCGGAGCGGCTGCGCCCTGCTG 420
421 CCAAGAGGTTCTGAGGTTGTTCCCTTAAATCGAGCGGCGTCACTTCACTACAGC 480
421 CCAAGAGGTTCTGAGGTTGTTCCCTTAAATCGAGCGGCGTCACTTCACTACAGC 480
481 CTGTCCACACTGCGGTGCTAGAGAGACACCATGTTGCGGCGGAGCGGCTGAGTGGCGGAC 540
481 CTGTCCACACTGCGGTGCTAGAGAGACACCATGTTGCGGCGGAGCGGCTGAGTGGCGGAC 540
541 TACATCCCCACAGACTCCGAGGCGGTTCTTCAATCGAGCGGAGCGGCTGAGTGGCGGAC 600
541 TACATCCCCACAGACTCCGAGGCGGTTCTTCAATCGAGCGGAGCGGCTGAGTGGCGGAC 600
601 GATGTGCTGAATTTCTGCGCTAGAGGAGCCTCCACCGAGGAGCGGTGTCAGCTGTG 660
601 GATGTGCTGAATTTCTGCGCTAGAGGAGCCTCCACCGAGGAGCGGTGTCAGCTGTG 660
661 TACAAGAGGCGGAGTACTGATGCGGCGGCTCTGAGGAGCGGTGTCAGTGGCGGAC 720
661 TACAAGAGGCGGAGTACTGATGCGGCGGCTCTGAGGAGCGGTGTCAGTGGCGGAC 720
721 CCACTGAAGCGGAGAGGTGCGCAAGCGGTTCTGCGGAGCTCATGCGGCTTATCAAGAGC 780
721 CCACTGAAGCGGAGAGGTGCGCAAGCGGTTCTGCGGAGCTCATGCGGCTTATCAAGAGC 780
781 CACTTGAAGCGGATTTGGAGATCGCCGCGGCTGCGGTGCGGAGCGGCGGCGGCTTT 840
781 CACTTGAAGCGGATTTGGAGATCGCCGCGGCTGCGGTGCGGAGCGGCGGCGGCTTT 840
841 GCCAAGCTCAAGAGCTTGACACCTTCTGCGGCTAATGAGTGTCTCATCAAGATGCCCTT 900
841 GCCAAGCTCAAGAGCTTGACACCTTCTGCGGCTAATGAGTGTCTCATCAAGATGCCCTT 900
901 GGAGTCAATCATGATTAACCGAGAAAGCGGCTGATTTGGAACTCCCATTTGGTCCA 960
901 GGAGTCAATCATGATTAACCGAGAAAGCGGCTGATTTGGAACTCCCATTTGGTCCA 960
961 GAGAGACAGAAATGAGAAAGATCCCTGTCCAGTTGCTGCGGAGGATTTCCAAAC 1020
961 GAGAGACAGAAATGAGAAAGATCCCTGTCCAGTTGCTGCGGAGGATTTCCAAAC 1020
1021 TTCAATGGCTAGAGATTTCAATGAGATGGGTTTACGCTTGTATTTGAACTGTCA 1080
1021 TTCAATGGCTAGAGATTTCAATGAGATGGGTTTACGCTTGTATTTGAACTGTCA 1080
1081 GCATGTTCTCTGTTGATGAGATGGGTTTACGCTTGTATTTGAACTGTCA 1140
1081 GCATGTTCTCTGTTGATGAGATGGGTTTACGCTTGTATTTGAACTGTCA 1140
1141 AACCAGATTTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1200
1141 AACCAGATTTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1200

1201 CAAAGTATGTTTCCAGAGTGAAGGCTCTCACGTTCCAGGATTTCTGGGTTGTAA 1260
1201 CAAAGTATGTTTCCAGAGTGAAGGCTCTCACGTTCCAGGATTTCTGGGTTGTAA 1260
1261 GCAGTACTGGCCATTTGTGACCCCTGTTTAACTAATCATCTGTTTAAAGGATG 1320
1261 GCAGTACTGGCCATTTGTGACCCCTGTTTAACTAATCATCTGTTTAAAGGATG 1320
1321 GTTTTACCCGATCCCTGGGAAAGATCCAGAAATCCAAATAGCTGAAACCCCTGTATAGC 1380
1321 GTTTTACCCGATCCCTGGGAAAGATCCAGAAATCCAAATAGCTGAAACCCCTGTATAGC 1380
1381 TTTTCTCTTATCTGCTTACCCCAAGACACACTTGAACCCCTCAGTAAGGCTATAGAGAG 1440
1381 TTTTCTCTTATCTGCTTACCCCAAGACACACTTGAACCCCTCAGTAAGGCTATAGAGAG 1440
1441 GGCATGAGCAGGGGAGCGCTCTCCCTTGTGTTTCTAGCTTCCATGATGAGGGTGTGCTG 1500
1441 GGCATGAGCAGGGGAGCGCTCTCCCTTGTGTTTCTAGCTTCCATGATGAGGGTGTGCTG 1500
1501 AGGCCAGCAATCTTGTGAGTGTGACAGTTGCAATATATTAACAGTTTCAAGATCTAGA 1560
1501 AGGCCAGCAATCTTGTGAGTGTGACAGTTGCAATATATTAACAGTTTCAAGATCTAGA 1560
1561 GGTACCTTTTGAAGAAACCCCTTTCAGGGATATCTATCCACAGTAGCTGAGCAGCAAG 1620
1561 GGTACCTTTTGAAGAAACCCCTTTCAGGGATATCTATCCACAGTAGCTGAGCAGCAAG 1620
1621 GTGAACCTGAGATTTGACCCACACAAATAGGGGGGCGCATTTCTTTTCAAAATTTTGG 1680
1621 GTGAACCTGAGATTTGACCCACACAAATAGGGGGGCGCATTTCTTTTCAAAATTTTGG 1680
1681 CTTTCAGATACTTCAATTAACATGCAATATTTGAGAGATTAAACAGAAATTCAGACTCT 1740
1681 CTTTCAGATACTTCAATTAACATGCAATATTTGAGAGATTAAACAGAAATTCAGACTCT 1740
1741 TATGCTTAACTGAGAGAGCCACTGCAAGTTGCAAGTTAGTACCCATGTGACGAGGCG 1800
1741 TATGCTTAACTGAGAGAGCCACTGCAAGTTGCAAGTTAGTACCCATGTGACGAGGCG 1800
1801 CAGTGAATCCAGAGCTTCCCAAGAGTGGACACAGGGGGGACTTTCTGATGTCCAC 1860
1801 CAGTGAATCCAGAGCTTCCCAAGAGTGGACACAGGGGGGACTTTCTGATGTCCAC 1860
1861 CCAAGAGAGAAATGAGCTGAGCGCTCTTGTCTGCTGCCCAATGCAATCCCATGTGCTT 1920
1861 CCAAGAGAGAAATGAGCTGAGCGCTCTTGTCTGCTGCCCAATGCAATCCCATGTGCTT 1920
1921 CAGTGTACCCCATTTCAAAATAACATGGCATTTCTTGGAACTTGTATCTGACATGTAGA 1980
1921 CAGTGTACCCCATTTCAAAATAACATGGCATTTCTTGGAACTTGTATCTGACATGTAGA 1980
1981 CCAGCTTACATTTGGGTTGGTGGGCTCACACTTCTTAATCTTACCTTGGAG 2040
1981 CCAGCTTACATTTGGGTTGGTGGGCTCACACTTCTTAATCTTACCTTGGAG 2040
2041 GCTGAGTGGGAGATTTGCTTGGACACAGGAGTTCCAGACAGCTTCCAGCAATGCGGA 2100
2041 GCTGAGTGGGAGATTTGCTTGGACACAGGAGTTCCAGACAGCTTCCAGCAATGCGGA 2100
2101 AATCTCTCTCTTCAAGAAATAAATAAATAAATAAATAAATAAATAAATAAATAA 2154
2101 AATCTCTCTCTTCAAGAAATAAATAAATAAATAAATAAATAAATAAATAAATAA 2154

RESULT 2

US-10-094-749-1045
; Sequence 1045, Application US/10094749
; Publication No. US20030219741A1
; GENERAL INFORMATION:
; APPLICANT: ISOGAI, TAKAO
; APPLICANT: SUGIYAMA, TOMOYASU
; APPLICANT: OTSUKI, TETSUJI

Query Match	27.3%	Score 587;	DB 16;	Length 2576;
Best Local Similarity	96.0%;	Prod. No. 9.9e-167;		
Matches 602;	Conservative 0;	Mismatches 25;	Indels 0;	Gaps 0;

Qy	230	CCGCGCCACGCGCAGCGCGCGCTCATGCCAGGCGCTGCTCGGCGAGCCAGAGGGATGG	289
Db	52		111
Qy	290	TGTTAGTCA CGGGCGGGAGCCAGACAGCCGTGTTAGGACGGTGCATGTCCAGTCTTG	349
Db	112	TGTTAGTCA CGGGCGGGAGCCAGACAGCCGTGTTAGGACGGTGCATGTCCAGTCTTG	171
Qy	350	ACGCCGAAGACACTTTCTGGAGCGGCGACGCCAGCGGCCACGCGCGGGGACGCGC	409
Db	172	ACGCCGAAGACACTTTCTGGAGCGGCGACGCCAGCGGCCACGCGCGGGGACGCGC	231
Qy	410	TGCCCTGTGCGCACAGAGTTTCTGAGGTTTCCCTTAAACATCGGAGGGCTCACT	469
Db	232	TGCCCTGTGCGCACAGAGTTTCTGAGGTTTCCCTTAAACATCGGAGGGCTCACT	291
Qy	470	TCACTACAGGCTGTCCACACTGCGGTGTACGAAGACACCATGTGCGAGCCATGTTCA	529
Db	292	TCACTACAGGCTGTCCACACTGCGGTGTACGAAGACACCATGTGCGAGCCATGTTCA	351
Qy	530	GTGGCGGCACTACATCCCCACAGACTCCGAGGCGCGGTACTTTCATCGACCGAGATGGCA	589
Db	352	GTGGCGGCACTACATCCCCACAGACTCCGAGGCGCGGTACTTTCATCGACCGAGATGGCA	411
Qy	590	CACACTTTGAGATGTCTGAATTTCTGCGCTCAGGGGACCTCCACCCAGGAGGCGTG	649
Db	412	CACACTTTGAGATGTCTGAATTTCTGCGCTCAGGGGACCTCCACCCAGGAGGCGTG	471
Qy	650	TTGAGGTGTGTACAAAGAGCCCACTATATGCGATCGGGCCCTCTCTGGAGCAGCTGG	709
Db	472	TTGAGGTGTGTGTACAAAGAGCCCACTATATGCGATCGGGCCCTCTCTGGAGCAGCTGG	531
Qy	710	AGAACATGCAGCCACTCAAGGGCGAGAGGTGCGCCAGCGTTTCTGGACTCATGCCCT	769
Db	532	AGAACATGCAGCCACTCAAGGGCGAGAGGTGCGCCAGCGTTTCTGGACTCATGCCCT	591
Qy	770	ATTACAAAGACCACTTGAGCGGATGTGGAGATCGCCCGGCTCGGTCCAGCGGA	829

Db 524 AGAATGCGCCACTGAAGGCGAGAGGTGCCCAAGGTTCTGGGACTCATGCCCT 583
Qy 770 ATTACAAAGACCACTTGGAGCGGATTGTGGAGATCGCCCGGCTGCGGTCCAGCGGA 829
Db 584 ATTACAAAGACCACTTGGAGCGGATTGTGGAGATCGCCCGGCTGCGGTCCAGCGGA 643
Qy 830 AGGCCCGCTTGGCAAGCTCAAGACT 856
Db 644 AGGCCCGCTTGGCAAGCTCAAGTCT 670

RESULT 4
US-10-296-115-18
; Sequence 18, Application US/10296115
; Publication No. US20040053248A1
; GENERAL INFORMATION:
; APPLICANT: Hyseq Inc
; TITLE OF INVENTION: No. US20040053248A1e1 Nucleic Acids and Polypeptides
; FILE REFERENCE: 784PCT
; CURRENT APPLICATION NUMBER: US/10/296,115
; PRIOR FILING DATE: 2002-11-18
; PRIOR APPLICATION NUMBER: US09/488,725
; PRIOR FILING DATE: 2000-01-21
; PRIOR APPLICATION NUMBER: US09/552,317
; PRIOR FILING DATE: 2000-04-25
; NUMBER OF SEQ ID NOS: 1478
; SEQ ID NO 18
; LENGTH: 519
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-296-115-18

Query Match 21.6%; Score 465; DB 13; Length 519;
Best Local Similarity 94.2%; Pred. No. 4.1e-130;
Matches 483; Conservative 0; Mismatches 30; Indels 0; Gaps 0;
Qy 224 CCCCTCCGGCCAGCCGCGCAGCCGCGTCATGCCAGGCGTCTCGGCGAGCCAGAG 283
Db 7 CCCGGTGCAGATTCTCTCCGCCGCCCGAAGCCGCCGCCACTGCCAGAGCCAGAG 66
Qy 284 GGATGGTGTAGTCAACGGGGGGAGCCAGACAGCCGTCGTGAGGAGCGTGCCATGTCCA 343
Db 67 GGATGGTGTAGTCAACGGGGGGAGCCAGACAGCCGTCGTGAGGAGCGTGCCATGTCCA 126
Qy 344 GCTGTGACCGCAAGACGACTTCTGAGCGGGCCAGCCGCGCCAGCCAGCGCGGGC 403
Db 127 GCTGTGACCGCAAGACGACTTCTGAGCGGGCCAGCCGCGCCAGCCAGCGCGGGC 186
Qy 404 ACGGCTGCCCTGCTGCACAGGAGTTCTGTAGGTTGTTCCCTTAACATCGAGGGG 463
Db 187 ACGGCTGCCCTGCTGCACAGGAGTTCTGTAGGTTGTTCCCTTAACATCGAGGGG 246
Qy 464 CTCCTTCACTACAGCCGTGTCCAACCTGCGGTGTCTACGAAGACACCATGTTGCGAGCCA 523
Db 247 CTCCTTCACTACAGCCGTGTCCAACCTGCGGTGTCTACGAAGACACCATGTTGCGAGCCA 306
Qy 524 TGTTCACTGCGGCGCACTACATCCCAAGCTCCGAGCGCGGTACTTCAATCGACCGAG 583
Db 307 TGTTCACTGCGGCGCACTACATCCCAAGCTCCGAGCGCGGTACTTCAATCGACCGAG 366
Qy 584 ATGGCAGACACTTTGGAGATGTCTGAATTTCTGCGCTCAGGGGACCTCCACCCAGGG 643
Db 367 ATGGCAGACACTTTGGAGATGTCTGAATTTCTGCGCTCAGGGGACCTCCACCCAGGG 426
Qy 644 ACGGTGTTGAGCTGTGTACAAAGGCGCCAGTACTATGCGCATCGGGCCCTCTCTGAGC 703
Db 427 ACGGTGTTGAGCTGTGTACAAAGGCGCCAGTACTATGCGCATCGGGCCCTCTCTGAGC 486
Qy 704 ACGTGGAGACATGCGAGCCACTGAAGGGCGAGA 736
Db 487 ACGTGGAGAACATGCGGCCACTGAAGGGCGAGA 519

RESULT 5
US-10-027-632-31358
; Sequence 31358, Application US/10027632
; Publication No. US20020198371A1
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
; Polymorphisms in the Human Genome
; FILE REFERENCE: 108827.129
; CURRENT APPLICATION NUMBER: US/10/027,632
; CURRENT FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: US 60/218,006
; PRIOR FILING DATE: 2000-07-12
; PRIOR APPLICATION NUMBER: US 60/198,676
; PRIOR FILING DATE: 2000-04-20
; PRIOR APPLICATION NUMBER: US 60/193,483
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: US 60/185,218
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/167,363
; PRIOR FILING DATE: 1999-11-23
; PRIOR APPLICATION NUMBER: US 60/156,358
; PRIOR FILING DATE: 1999-09-28
; PRIOR APPLICATION NUMBER: US 60/146,002
; PRIOR FILING DATE: 1999-08-09
; NUMBER OF SEQ ID NOS: 325720
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 31358
; LENGTH: 1100
; TYPE: DNA
; ORGANISM: Human
US-10-027-632-31358

Query Match 19.4%; Score 417; DB 13; Length 1100;
Best Local Similarity 100.0%; Pred. No. 2.5e-115;
Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 926 AAAGCGGCGTGTATTTGGAACTCCCATTTGGTCCAGAGACAGAAACAATGAGAAGAAAT 985
Db 684 AAAGCGGCGTGTATTTGGAACTCCCATTTGGTCCAGAGACAGAAACAATGAGAAGAAAT 743
Qy 986 CCCTGTCCAGTTCCTGCGAGGAGTATTCACACATTCATGGCTGAGGATTCATTGA 1045
Db 744 CCCTGTCCAGTTCCTGCGAGGAGTATTCACACATTCATGGCTGAGGATTCATTGA 803
Qy 1046 GATGGGGTTTACCTCTGTATTTGAACACCTGTGACACTGTTCTCTGTTGATGCA 1105
Db 804 GATGGGGTTTACCTCTGTATTTGAACACCTGTGACACTGTTCTCTGTTGATGCA 863
Qy 1106 TTCTGACCCCTTTTATGGCAACAACACCCCTGGGCAACCCAGATTTGTAGATTGAGATCC 1165
Db 864 TTCTGACCCCTTTTATGGCAACAACACCCCTGGGCAACCCAGATTTGTAGATTGAGATCC 923
Qy 1166 AAAGGTAGAAATTTCCAGACAGTCCACCAAGGTATCAAGTATGTTCCAGAGTGGAGG 1225
Db 924 AAAGGTAGAAATTTCCAGACAGTCCACCAAGGTATCAAGTATGTTCCAGAGTGGAGG 983
Qy 1226 CTCTCACCGTCCCGAGATTTCTGGGGTTTGTAAAGCAGTACTGGCCATTTGTGACCCCTG 1285
Db 984 CTCTCACCGTCCCGAGATTTCTGGGGTTTGTAAAGCAGTACTGGCCATTTGTGACCCCTG 1043
Qy 1286 TTTTACCTTAATCATCTCTCTTTTGTAGACATGTTTACCCGATTCCTCGGCAAA 1342
Db 1044 TTTTACCTTAATCATCTCTCTTTTGTAGACATGTTTACCCGATTCCTCGGCAAA 1100

RESULT 6
US-10-027-632-31358
; Sequence 31358, Application US/10027632
; Publication No. US20030204075A9
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.

```
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
; FILE REFERENCE: 108927.129
; CURRENT APPLICATION NUMBER: US/10/027,632
; CURRENT FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: US 60/218,006
; PRIOR FILING DATE: 2000-07-12
; PRIOR APPLICATION NUMBER: US 60/198,676
; PRIOR FILING DATE: 2000-04-20
; PRIOR APPLICATION NUMBER: US 60/193,483
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: US 60/185,218
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/167,363
; PRIOR FILING DATE: 1999-11-23
; PRIOR APPLICATION NUMBER: US 60/156,358
; PRIOR FILING DATE: 1999-09-28
; PRIOR APPLICATION NUMBER: US 60/146,002
; PRIOR FILING DATE: 1999-08-09
; NUMBER OF SEQ ID NOS: 325720
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 31358
; LENGTH: 1100
; TYPE: DNA
; ORGANISM: Human
; US-10-027-632-31358

Query Match          19.4%; Score 417; DB 16; Length 1100;
Best Local Similarity 100.0%; Pred. No. 2.5e-115;
Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 926 AAAGCGCGTGTATTGGAAACTCCCATTTGGTCCAGAGAGACAGAAATGAGAAAT 985
Db      |||||
QY 985 CCCCTGTCCAGTTCCTGAGAGATATCCACACTTCATGGCTAGAGATTCCATTGA 1045
Db      |||||
QY 744 CCCCTGTCCAGTTCCTGAGAGATATCCACACTTCATGGCTAGAGATTCCATTGA 803
Db      |||||
QY 1046 GATGGGTTTACGTTGATTTTGAACACTGTGACAGCTGTCTCTGTTTCATGGCAA 1105
Db      |||||
QY 804 GATGGGTTTACGTTGATTTTGAACACTGTGACAGCTGTCTCTGTTTCATGGCAA 863
Db      |||||
QY 1106 TTCTGACCCCTTTATGGCAACACACCCCTGGGCAACCCAGATTTGTAGATTGAGATCC 1165
Db      |||||
QY 864 TTCTGACCCCTTTATGGCAACACACCCCTGGGCAACCCAGATTTGTAGATTGAGATCC 923
Db      |||||
QY 1166 AAAGGTAGAAATTTCCAGACAGTCCAAACAAAGGTATCAAGTATGTTTCCAGAGTGAAGG 1225
Db      |||||
QY 924 AAAGGTAGAAATTTCCAGACAGTCCAAACAAAGGTATCAAGTATGTTTCCAGAGTGAAGG 983
Db      |||||
QY 1226 CTCTCACCGTGTCCAGGATTTCTGGGTTTCTAAGCAGTACTGCCATTTGTGACCCCTG 1285
Db      |||||
QY 984 CTCTCACCGTGTCCAGGATTTCTGGGTTTCTAAGCAGTACTGCCATTTGTGACCCCTG 1043
Db      |||||
QY 1286 TTTTATACCTAATCAATCTGCTTTTATAGACATGTTTATACCGATCCCTGGCAAA 1342
Db      |||||
QY 1044 TTTTATACCTAATCAATCTGCTTTTATAGACATGTTTATACCGATCCCTGGCAAA 1100
Db      |||||

RESULT 7
US-10-024-579-8
; Sequence 8, Application US/10024579
; Publication No. US20020119522A1
; GENERAL INFORMATION:
; APPLICANT: Friddle, Carl Johan
; APPLICANT: Gerhardt, Brenda
; APPLICANT: Hilbun, Erin
; APPLICANT: Turner, C. Alexander Jr.
; TITLE OF INVENTION: No. US20020119522A1el Human Ion Channel-Related Proteins
; FILE REFERENCE: LEX-0274-USA
; CURRENT APPLICATION NUMBER: US/10/024,579
; CURRENT FILING DATE: 2001-12-18
; PRIOR APPLICATION NUMBER: US 60/258,595
; PRIOR FILING DATE: 2000-12-28
; NUMBER OF SEQ ID NOS: 17
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 4
; LENGTH: 363
; TYPE: DNA
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; CURRENT FILING DATE: 2001-12-18
; PRIOR APPLICATION NUMBER: US 60/258,595
; PRIOR FILING DATE: 2000-12-28
; NUMBER OF SEQ ID NOS: 17
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 8
; LENGTH: 680
; TYPE: DNA
; ORGANISM: homo sapiens
; US-10-024-579-8

Query Match          18.0%; Score 387.8; DB 14; Length 680;
Best Local Similarity 88.2%; Pred. No. 1.4e-106;
Matches 456; Conservative 1; Mismatches 3; Indels 57; Gaps 1;

QY 146 CGGGTTCAGSCCCAGCTGGCGCGAGCGGTGCGGGTGTAGGAGGCCACCGCCCTCCCGC 205
Db      |||||
QY 1 CGGGTTCAGSCCCAGCTGGCGCGAGCGGTGCGGGTGTAGGAGGCCACCGCCCTCCCGC 60
Db      |||||
QY 206 CTGCGCACTGCTCTCGCCCCCTCCGCGCAGCGCCGCGCGCGCGCTCATGCCAGGCG 265
Db      |||||
QY 61 CTGCGCACTGCTCTCGCCCCCTCCGCGCAGCGCCGCGCGCGCTCATGCCAGGCG 120
Db      |||||
QY 266 CTGCTCGGC----- 274
Db      |||||
QY 121 CTGCTCGCGGTAGGAGTGCCTCGCGCGCGCGCTCTCGCCCCCGCGAAGCGCGCCAC 180
Db      |||||
QY 275 -----GAGCCAGAGGATGTTGTTAGTACAGGGGGGAGGACAGACAGCCCTGCTCAGG 328
Db      |||||
QY 181 TGCCAGAGCCAGAGAGGATGTTGTTAGTACAGGGGGGAGGACAGACAGCCCTGCTCAGG 240
Db      |||||
QY 329 ACGGTGCGCATGTCCAGCTCTGACGCGCGAAGACGACTTTCTGGAGCGGCGCAGCGACGG 388
Db      |||||
QY 241 ACGGTGCGCATGTCCAGCTCTGACGCGCGAAGACGACTTTCTGGAGCGGCGCAGCGACGG 300
Db      |||||
QY 389 CCACGCGCGGGGCGACCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 448
Db      |||||
QY 301 CCACGCGCGGGGCGACCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 360
Db      |||||
QY 449 TTAACATCGAGGGGCTCAGTCTACATACAGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 508
Db      |||||
QY 361 TTAACATCGAGGGGCTCAGTCTACATACAGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 420
Db      |||||
QY 509 CCATGTTGCGAGCCATGTTTCAAGTGGGCGGCGCTACATCCACAGACTCCGAGGGCGGT 568
Db      |||||
QY 421 CCATGTTGCGAGCCATGTTTCAAGTGGGCGGCGCTACATCCACAGACTCCGAGGGCGGT 480
Db      |||||
QY 569 ACTTCATCGAGCGAGATGCGCACACACTTTGGAGATGT 605
Db      |||||
QY 481 ACTTCATCGAGCGAGATGCGCACACACTTTGGATGT 517
Db      |||||

RESULT 8
US-10-024-579-4
; Sequence 4, Application US/10024579
; Publication No. US20020119522A1
; GENERAL INFORMATION:
; APPLICANT: Friddle, Carl Johan
; APPLICANT: Gerhardt, Brenda
; APPLICANT: Hilbun, Erin
; APPLICANT: Turner, C. Alexander Jr.
; TITLE OF INVENTION: No. US20020119522A1el Human Ion Channel-Related Proteins
; FILE REFERENCE: LEX-0274-USA
; CURRENT APPLICATION NUMBER: US/10/024,579
; CURRENT FILING DATE: 2001-12-18
; PRIOR APPLICATION NUMBER: US 60/258,595
; PRIOR FILING DATE: 2000-12-28
; NUMBER OF SEQ ID NOS: 17
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 4
; LENGTH: 363
; TYPE: DNA
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